ROOF SCALERS

A. Original Equipment Manufacturer (OEM)

The following is a listing of OEMs for scalers used in the mining environment. The scaling action can be accomplished by using either a standard pick arm or hydraulic hammer attached to the end of the boom. Local dealers may be contacted for details. Some manufacturers will build a unit to meet your specific needs.

Manufacturers	Noise Controls
Fletcher	
Getman Corporation	
Gradall	

Currently there are no noise controls incorporated into the scaler. Operator enclosures are available for some models but they are not designed specifically for noise control.
The scalers' diesel engines are a primary noise source as is the hydraulic hammer. The height of the mine seam will determine the size of the scaler needed. Local dealers can generally advise customers on their particular application.

B. Retrofit Noise Controls

The effectiveness of noise controls depends on the quality of both the acoustical materials and the installation.

If a retrofit kit is not available, the materials may be purchased in bulk (See Appendix C for listing of suppliers).

1. Acoustical Treatment of Operator Cab Enclosure - Treat the enclosure with MSHA-approved acoustical materials for the purpose of reducing the overall noise at the operator's position. These materials should cover as much surface area as possible without hindering the operator's vision or movement. A unique problem with scalers is that a wide range of visibility is needed for operator control. Another problem is that roof debris will fall, possibly shatter on the floor and fly towards the cab. If safety glass or shatterproof plastic is used, it is recommended to clean it regularly due to dust build-up.

   On a positive note; generally the diesel engine is located to the rear of the operator. For that reason the majority of noise controlling efforts on scaler noise is focused behind the operator.

NOTE: With any enclosure work (equipment or personnel), heat build-up can become a concern and appropriate ventilation or air-conditioning is recommended.

To assist in the selection and installation of acoustical materials for the above option, please refer to the appropriate appendices at the end of this manual.

C. Alternative Technology

None identified at this time.